

Amendment

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cont

detected in cells co-transfected with hT1R2 and hT1R3 (panel C), but not with hT1R2 (panel A) or hT1R3 (panel B) alone. The G-protein dependence of T1R2/T1R3 activity was similarly determined by co-transfection of the T1Rs and different G proteins into HEK-293T cells, which unlike HEK-G15 cells do not express G_{α15}. In the panels below, sucrose (120 mM) responses were detected in cells that transiently express G_{α15} (panel E), but not Gq (panel D). Thus, T1R2 and T1R3 together are activated by sweet taste stimuli, and they couple to G_{α15}, thereby allowing their activity to be determined by fluorescence-based whole-cell assay.
